

Municipal Vulnerability Preparedness Program Listening Session

City of Methuen, MA
June 11, 2019
Methuen City Hall





Today's Presentation

MVP Program Background Workshop Process Climate Change Projections **MVP** Recommendations Open Questions and Comment Period







Governor Baker's Executive Order 569

September 2016, directed the state to <u>assist</u> municipalities to reduce vulnerability and improve resilience to climate change

- 1. MA Climate Change Clearinghouse
- 2. MA State Hazard Mitigation and Climate Adaptation Plan (in development)



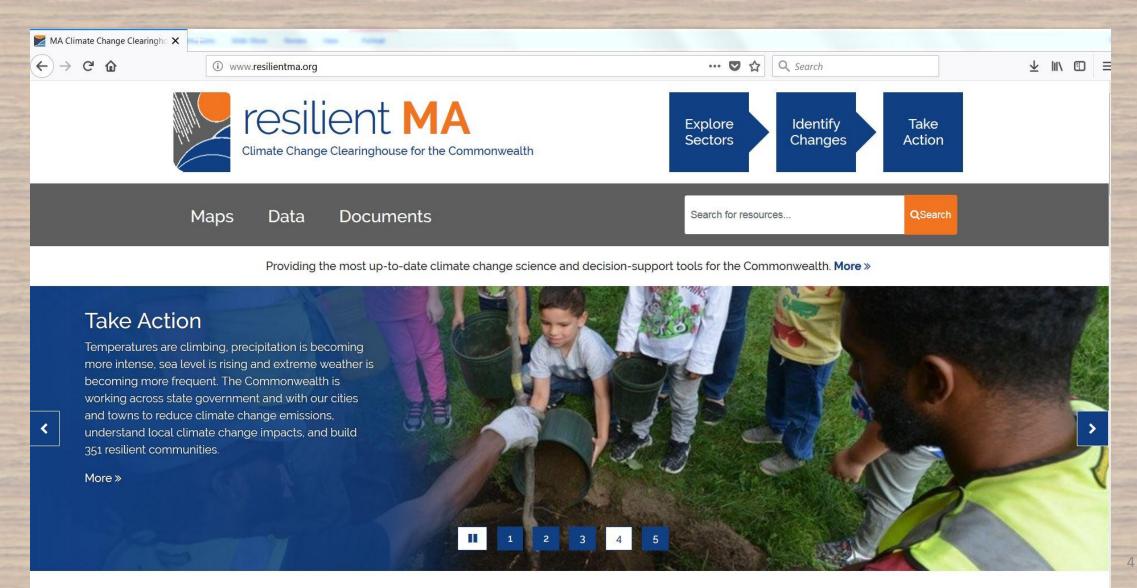
- 3. Municipal Vulnerability Preparedness (MVP) Grant Program
 - √ Technical assistance to achieve certification
 - ✓ Implementation funds for certified municipalities







Climate Change Clearinghouse www.resilentma.org





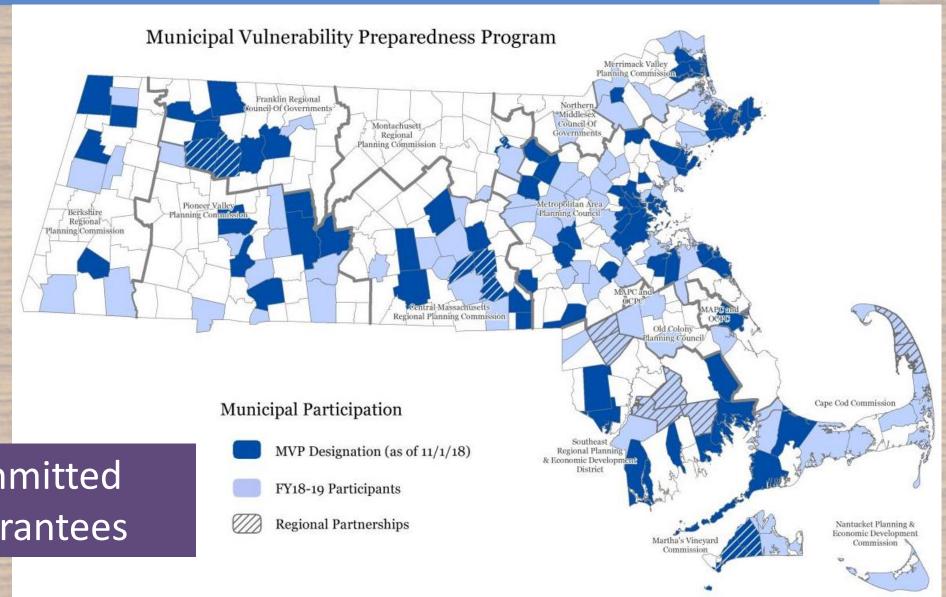
Adopted September 17, 2018







MVP Grantees to Date



Over \$17 committed to the MVP Grantees

MA Climate Change Legislation \$2.4 Billion Environmental Bond Bill

Signed August 21, 2018

- climate change preparedness
- environmental protection
- community investments

\$75 Million for MVP Program









Resilience & Adaptation

Goal for the Workshop

To identify the <u>5-7 Highest Priority</u> actions that the City of Methuen should take to increase *resilience* and *adapt* to climate change







Responses to Climate Change

Vulnerability:

the degree to which a system is susceptible to, or unable to cope with, adverse effects of climate change, including climate variability and extremes

Resilience:

the ability of a system and its component parts to anticipate, absorb, accommodate, or recover from the effects of a hazardous event in a timely and efficient manner, including through ensuring the preservation, restoration, or improvement of its essential basic structures and functions

Adaptation:

the process of adjustment to actual or expected climate and its effects, in order to moderate harm or exploit beneficial opportunities.

Workshop Format— vibrant discussion



- Presentation to set the stage for our discussion
- Determine climate change hazards to focus on
- Identify the most vulnerable features in Methuen
- Identify the features that provide strength



- Develop actions what can the city do to address vulnerabilities and protect/enhance strengths?
- Prioritize the most important actions for Methuen







Overview of Climate Change Projections

Temperature
Precipitation
Extreme Weather Events

Projections developed by:

Northeast Climate Science Center at Umass.

Downscaled projections specifically for MA counties and major watersheds.







Survey Says... Most Vulnerable:

Infrastructure: Damage/loss of roads, bridges, utilities, schools, etc.

People: Loss of life and/or injuries

Economic: Business interruptions, closures, job losses, personal property damage

Environment: Damage, contamination or loss of resource areas

Cultural/Historic: Damage or loss to historic properties, neighborhood character

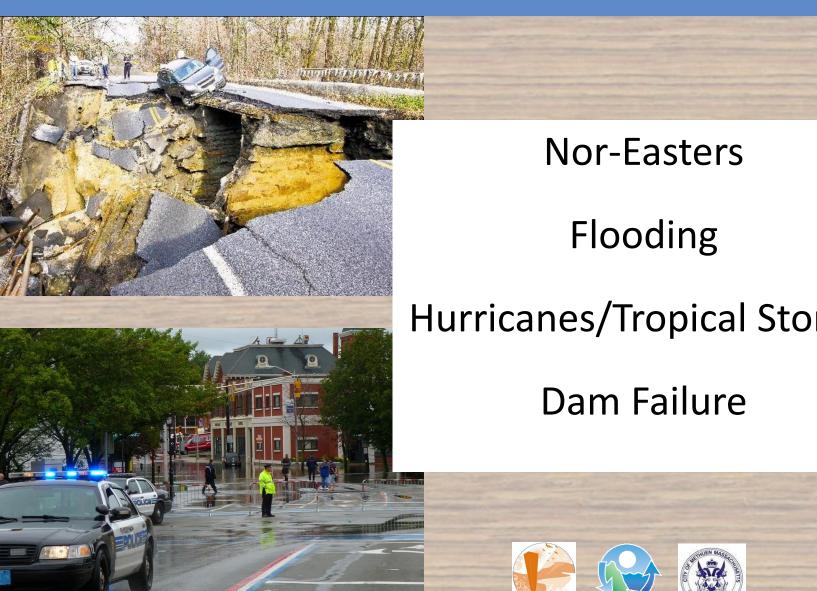
Governance: Ability to maintain order and/or provide public amenities and services







Natural Hazards Considered Most Pressing:



Hurricanes/Tropical Storms







What Types of Actions Could We Take?

Engineering/Construction Protection/Conservation Retreat/Avoidance Preparations/Planning Policy/Regulatory Changes



https://streamprojects.wordpress.com/2007/05/15/dingle-road-culvert-replacement-bronson-brook-worthington-ma/

[Short-term, Long-term, ongoing]







7 top recommendations emerged

- Prioritization process:
 - Process of break out discussion
 - Full group discussion
 - "Dot voting" process and final deliberation







RECOMMENDATION 1:

Outreach/Communication with Special/Vulnerable Populations:

- Establish Emergency Management Team (Government Staff)
- Better Municipal Communication across the board (in various languages, including social media)
- Establish Partnerships
- Funding for emergency supplies
- Smart 911
- 311 System
- Signage & Wayfinding for shelter access







RECOMMENDATION 2:

Water Supply:

 Drinking Water and Fire: Explore additional sources and evaluate intake based on failure

RECOMMENDATION 3:

Open Space:

- Identify grant funds and donations
- Pass Community Preservation Act







RECOMMENDATION 4 (Tie):

Purchase a new ambulance

Street Tree Assessment and Re-planting Initiative

Spicket River:

- Upgrade floodgates
- Vulnerability assessment







RECOMMENDATION 5 (Tie):

Relocate DPW Facility:

- Advance conceptual design
- Finalize site

Storm Drainage:

- Assessment of Infrastructure
- Develop and implement stormwater management plan
- Explore Stormwater Utility Fee
- Combined sewer overflows re-evaluate the situation, what is needed and where







RECOMMENDATION 6:

Erosion:

- Upgrade culverts
- Develop and implement preventative maintenance plan for culverts

RECOMMENDATION 7 (Tie):

Implement regulations to prohibit location of assisted/elderly housing in the floodplain

Study of public safety facility location(s) to maximize/optimize the ability to respond to emergencies city-wide





Questions and Comments?

The Final MVP Workshop Summary report will be available online

www.cityofmethuen.net





